

RAW SEQUENCE LISTING

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Application Serial Number: 09/692,077 E
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/692,077E

DATE: 10/19/2005

TIME: 08:48:38

Input Set : A:\10738-43s.ST25.txt

Output Set: N:\CRF4\10192005\I692077E.raw

3 <110> APPLICANT: Liggett, Stephen
 4 Small, Kersten M.
 6 <120> TITLE OF INVENTION: Alpha-2B-Adrenergic Receptor Polymorphisms
 8 <130> FILE REFERENCE: 10738-43
 10 <140> CURRENT APPLICATION NUMBER: 09/692,077E
 11 <141> CURRENT FILING DATE: 2000-10-19
 13 <160> NUMBER OF SEQ ID NOS: 26
 15 <170> SOFTWARE: PatentIn version 3.2
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 1353
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Homo sapiens
 22 <400> SEQUENCE: 1
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 25 ttccttatttc tcttttaccat cttcggcaac gctctggtca tcctggctgt gttgaccagc 120
 27 cgctcgctgc ggcgcgcctca gaacctgttc ctgggtgtcgc tggccgcgc cgcacatcctg 180
 29 gtggccacgc tcatacatccc ttctctcgctg gccaacgagc tgctgggtca ctggtaacttc 240
 31 cggcgcacgt ggtgcgaggt gtacactggcg ctcgacgtgc ttctctgcac ctcgtccatc 300
 33 gtgcacctgt ggcgcacatcg cctggaccgc tactggcccg tgagccgcgc gctggagttac 360
 35 aactccaaggc gcaccccgcg ccgcataaag tgcatcatcc taactgtgtg gtcatacgcc 420
 37 gccgtcatct cgctgcgcgc ctcatactac aaggccgacc agggccccca gccgcgcggg 480
 39 cggcccccagt gcaagctcaa ccaggaggcc tggtacatcc tggccctccag catggatct 540
 41 ttctttgtctc cttgcctcat catgatcctt gtctacactgc gcatctacat gatgcctaaa 600
 43 cgcagcaacc gcagagggtcc cagggccaaag gggggccctg ggcagggtga gtccaaaggcag 660
 45 ccccgaccccg accatgggtgg ggctttggcc tcagccaaac tgccagccct ggcctctgtg 720
 47 gcttctgcca gagaggtcaa cggacactcg aagtccactg gggagaagga ggagggggag 780
 49 accccctgaag atactgggc acggcccttg ccaccaggat gggctgcct tcccaactca 840
 51 ggcctggcc agaaggagg ttttgtgg gcatctccag aggtatgaaat tgaaggaggag 900
 53 gaagaggagg aggaggaggaa ggaagagtgt gaaccagg cagtcccaat gtctccggcc 960
 55 tcagttgca gccccccgt gcagcagccaa caggctccc gggctgtggc caccctacgt 1020
 57 ggcctggcgc tcctggcag gggctgtggg gctataaggat ggcagggtgg gctgtcgaagg 1080
 59 ggcctggcgc cccggagaa ggccttcacc ttctgtgtgg ctgtggcat tggctttt 1140
 61 gtgtctgtct ggttccctt ctcttcagc tacagctgg ggcctcatcg cccgaaggc 1200
 63 tgcaagggtgc cccatggcct ctccagttc ttcttctggta tcggctactg caacagctca 1260
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70 <210> SEQ ID NO: 2

71 <211> LENGTH: 1344

72 <212> TYPE: DNA

73 <213> ORGANISM: Homo sapiens

75 <400> SEQUENCE: 2

76 atggaccacc aggaccctta ctccgtgcag gccacagcgg ccatagcggc ggccatcacc 60

78 ttccttatttc tcttttaccat cttcggcaac gctctggtca tcctggctgt gttgaccagc 120

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80	cgctcgctgc	gcccctca	gaacctgttc	ctgggtgcgc	tggccgcgc	cgacatcctg	180
82	gtggccacgc	tcatcatccc	tttctcgctg	gccaacgagc	tgctgggata	ctggtacttc	240
84	cggcgcacgt	ggtgcgaggt	gtacctggcg	ctcgacgtgc	tcttctgcac	ctcgccatc	300
86	gtgcacctgt	gcccattcag	cctggaccgc	tactggcccg	ttagccgcgc	gctggagtac	360
88	aactccaaggc	gcaccccgcg	ccgcatcaag	tgcattatcc	tcaactgtgt	gctcatcgcc	420
90	gccgtcatct	cgctggcgcc	cctcatctac	aagggcgacc	agggccccca	gccgcgcggg	480
92	cgcggccatgt	gcaagctcaa	ccaggaggcc	tggtacatcc	tggcctccag	catcgatct	540
94	ttttttgttc	cttgcctcat	catgatcctt	gtctacactgc	gcatctactt	gatgc当地	600
96	cgcagcaacc	gcagagggtcc	caggcacaag	ggggggcctg	ggcagggtga	gtccaaagcag	660
98	ccccgaccccg	accatgggtgg	ggcttggcc	tccatccaaac	tgcctgcct	ggcctctgt	720
100	gettctgcca	gagaggtaa	cgacactcg	aagtccactg	gggagaagga	ggaggggggag	780
102	acccctgaag	atactggac	ccgggccttgc	ccacccatgt	gggctgcctt	tccatccaa	840
104	ggccaggggcc	agaaggagggg	tgttgtgg	gcatctccag	aggatgaagc	tgaagaggag	900
106	gaggaggagg	aggaagagtg	tgaacccatcg	gcagtgcctg	tgtctccggc	ctcagcttgc	960
108	agccccccgc	tgcagcagcc	acagggtctcc	cgggtgtctgg	ccacccatcg	tggccagggt	1020
110	ctcctggca	ggggcgtggg	tgctataggt	gggcagtgg	ggcgtcgaag	ggcgcagctg	1080
112	acccgggaga	agcgcttcac	tttcgtgtcg	gctgtggtca	ttggcgtttt	tgtgtctgc	1140
114	tggttccct	tcttcttcag	ctacagccatcg	ggcgcctatct	gcccgaagca	ctgcaagggt	1200
116	ccccatggcc	tcttcagtt	tttcttctgg	atcggctact	gcaacagctc	actgaaccct	1260
118	gttatctaca	ccatcttcaa	ccaggacttc	cgccgtgcct	tccggaggat	cctgtgcgc	1320
120	ccgtggacc	agacggcctg	gtga				1344
123	<210>	SEQ ID NO:	3				
124	<211>	LENGTH:	9				
125	<212>	TYPE:	DNA				
126	<213>	ORGANISM:	Homo sapiens				
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132	<210>	SEQ ID NO:	4				
133	<211>	LENGTH:	9				
134	<212>	TYPE:	DNA				
135	<213>	ORGANISM:	Homo sapiens				
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138	gaggaggag						9
141	<210>	SEQ ID NO:	5				
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147	ctccctttc						9
150	<210>	SEQ ID NO:	6				
151	<211>	LENGTH:	9				
152	<212>	TYPE:	DNA				
153	<213>	ORGANISM:	Homo sapiens				
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159	<210>	SEQ ID NO:	7				
160	<211>	LENGTH:	450				
161	<212>	TYPE:	PRT				
162	<213>	ORGANISM:	Homo sapiens				

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164 <400> SEQUENCE: 7
166 Met Asp His Gln Asp Pro Tyr Ser Val Gln Ala Thr Ala Ala Ile Ala
167 1 5 10 15
170 Ala Ala Ile Thr Phe Leu Ile Leu Phe Thr Ile Phe Gly Asn Ala Leu
171 20 25 30
174 Val Ile Leu Ala Val Leu Thr Ser Arg Ser Leu Arg Ala Pro Gln Asn
175 35 40 45
178 Leu Phe Leu Val Ser Leu Ala Ala Asp Ile Leu Val Ala Thr Leu
179 50 55 60
182 Ile Ile Pro Phe Ser Leu Ala Asn Glu Leu Leu Gly Tyr Trp Tyr Phe
183 65 70 75 80
186 Arg Arg Thr Trp Cys Glu Val Tyr Leu Ala Leu Asp Val Leu Phe Cys
187 85 90 95
190 Thr Ser Ser Ile Val His Leu Cys Ala Ile Ser Leu Asp Arg Tyr Trp
191 100 105 110
194 Ala Val Ser Arg Ala Leu Glu Tyr Asn Ser Lys Arg Thr Pro Arg Arg
195 115 120 125
198 Ile Lys Cys Ile Ile Leu Thr Val Trp Leu Ile Ala Ala Val Ile Ser
199 130 135 140
202 Leu Pro Pro Leu Ile Tyr Lys Gly Asp Gln Gly Pro Gln Pro Arg Gly
203 145 150 155 160
206 Arg Pro Gln Cys Lys Leu Asn Gln Glu Ala Trp Tyr Ile Leu Ala Ser
207 165 170 175
210 Ser Ile Gly Ser Phe Phe Ala Pro Cys Leu Ile Met Ile Leu Val Tyr
211 180 185 190
214 Leu Arg Ile Tyr Leu Ile Ala Lys Arg Ser Asn Arg Arg Gly Pro Arg
215 195 200 205
218 Ala Lys Gly Gly Pro Gly Gln Gly Glu Ser Lys Gln Pro Arg Pro Asp
219 210 215 220
222 His Gly Gly Ala Leu Ala Ser Ala Lys Leu Pro Ala Leu Ala Ser Val
223 225 230 235 240
226 Ala Ser Ala Arg Glu Val Asn Gly His Ser Lys Ser Thr Gly Glu Lys
227 245 250 255
230 Glu Glu Gly Glu Thr Pro Glu Asp Thr Gly Thr Arg Ala Leu Pro Pro
231 260 265 270
234 Ser Trp Ala Ala Leu Pro Asn Ser Gly Gln Gly Gln Lys Glu Gly Val
235 275 280 285
238 Cys Gly Ala Ser Pro Glu Asp Glu Ala Glu Glu Glu Glu Glu Glu
239 290 295 300
242 Glu Glu Glu Glu Cys Glu Pro Gln Ala Val Pro Val Ser Pro Ala
243 305 310 315 320
246 Ser Ala Cys Ser Pro Pro Leu Gln Gln Pro Gln Gly Ser Arg Val Leu
247 325 330 335
250 Ala Thr Leu Arg Gly Gln Val Leu Leu Gly Arg Gly Val Gly Ala Ile
251 340 345 350
254 Gly Gly Gln Trp Trp Arg Arg Arg Ala Gln Leu Thr Arg Glu Lys Arg
255 355 360 365
258 Phe Thr Phe Val Leu Ala Val Val Ile Gly Val Phe Val Leu Cys Trp
259 370 375 380

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262 Phe Pro Phe Phe Ser Tyr Ser Leu Gly Ala Ile Cys Pro Lys His
263 385           390           395           400
266 Cys Lys Val Pro His Gly Leu Phe Gln Phe Phe Trp Ile Gly Tyr
267           405           410           415
270 Cys Asn Ser Ser Leu Asn Pro Val Ile Tyr Thr Ile Phe Asn Gln Asp
271           420           425           430
274 Phe Arg Arg Ala Phe Arg Arg Ile Leu Cys Arg Pro Trp Thr Gln Thr
275           435           440           445
278 Ala Trp
279           450
282 <210> SEQ ID NO: 8
283 <211> LENGTH: 447
284 <212> TYPE: PRT
285 <213> ORGANISM: Homo sapiens
287 <400> SEQUENCE: 8
289 Met Asp His Gln Asp Pro Tyr Ser Val Gln Ala Thr Ala Ala Ile Ala
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293 Ala Ala Ile Thr Phe Leu Ile Leu Phe Thr Ile Phe Gly Asn Ala Leu
294           20           25           30
297 Val Ile Leu Ala Val Leu Thr Ser Arg Ser Leu Arg Ala Pro Gln Asn
298           35           40           45
301 Leu Phe Leu Val Ser Leu Ala Ala Ala Asp Ile Leu Val Ala Thr Leu
302           50           55           60
305 Ile Ile Pro Phe Ser Leu Ala Asn Glu Leu Leu Gly Tyr Trp Tyr Phe
306 65           70           75           80
309 Arg Arg Thr Trp Cys Glu Val Tyr Leu Ala Leu Asp Val Leu Phe Cys
310           85           90           95
313 Thr Ser Ser Ile Val His Leu Cys Ala Ile Ser Leu Asp Arg Tyr Trp
314           100          105          110
317 Ala Val Ser Arg Ala Leu Glu Tyr Asn Ser Lys Arg Thr Pro Arg Arg
318           115          120          125
321 Ile Lys Cys Ile Ile Leu Thr Val Trp Leu Ile Ala Ala Val Ile Ser
322           130          135          140
325 Leu Pro Pro Leu Ile Tyr Lys Gly Asp Gln Gly Pro Gln Pro Arg Gly
326 145          150          155          160
329 Arg Pro Gln Cys Lys Leu Asn Gln Glu Ala Trp Tyr Ile Leu Ala Ser
330           165          170          175
333 Ser Ile Gly Ser Phe Phe Ala Pro Cys Leu Ile Met Ile Leu Val Tyr
334           180          185          190
337 Leu Arg Ile Tyr Leu Ile Ala Lys Arg Ser Asn Arg Arg Gly Pro Arg
338           195          200          205
341 Ala Lys Gly Gly Pro Gly Gln Gly Glu Ser Lys Gln Pro Arg Pro Asp
342           210          215          220
345 His Gly Gly Ala Leu Ala Ser Ala Lys Leu Pro Ala Leu Ala Ser Val
346 225          230          235          240
349 Ala Ser Ala Arg Glu Val Asn Gly His Ser Lys Ser Thr Gly Glu Lys
350           245          250          255
353 Glu Glu Gly Glu Thr Pro Glu Asp Thr Gly Thr Arg Ala Leu Pro Pro
354           260          265          270

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357 Ser Trp Ala Ala Leu Pro Asn Ser Gly Gln Gly Gln Lys Glu Gly Val
358      275          280          285
361 Cys Gly Ala Ser Pro Glu Asp Glu Ala Glu Glu Glu Glu Glu Glu
362      290          295          300
365 Glu Glu Cys Glu Pro Gln Ala Val Pro Val Ser Pro Ala Ser Ala Cys
366 305          310          315          320
369 Ser Pro Pro Leu Gln Gln Pro Gln Gly Ser Arg Val Leu Ala Thr Leu
370          325          330          335
373 Arg Gly Gln Val Leu Leu Gly Arg Gly Val Gly Ala Ile Gly Gly Gln
374          340          345          350
377 Trp Trp Arg Arg Arg Ala Gln Leu Thr Arg Glu Lys Arg Phe Thr Phe
378          355          360          365
381 Val Leu Ala Val Val Ile Gly Val Phe Val Leu Cys Trp Phe Pro Phe
382          370          375          380
385 Phe Phe Ser Tyr Ser Leu Gly Ala Ile Cys Pro Lys His Cys Lys Val
386 385          390          395          400
389 Pro His Gly Leu Phe Gln Phe Phe Trp Ile Gly Tyr Cys Asn Ser
390          405          410          415
393 Ser Leu Asn Pro Val Ile Tyr Thr Ile Phe Asn Gln Asp Phe Arg Arg
394          420          425          430
397 Ala Phe Arg Arg Ile Leu Cys Arg Pro Trp Thr Gln Thr Ala Trp
398          435          440          445

401 <210> SEQ ID NO: 9
402 <211> LENGTH: 16
403 <212> TYPE: PRT
404 <213> ORGANISM: Homo sapiens
406 <400> SEQUENCE: 9
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413 <211> LENGTH: 13
414 <212> TYPE: PRT
415 <213> ORGANISM: Homo sapiens
417 <400> SEQUENCE: 10
419 Glu Asp Glu Ala Glu Glu Glu Glu Glu Glu Glu Glu Glu
420 1          5          10
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424 <211> LENGTH: 3
425 <212> TYPE: PRT
426 <213> ORGANISM: Homo sapiens
428 <400> SEQUENCE: 11
430 Glu Glu Glu
431 1
434 <210> SEQ ID NO: 12
435 <211> LENGTH: 3
436 <212> TYPE: PRT
437 <213> ORGANISM: Homo sapiens
439 <400> SEQUENCE: 12
441 Cys Glu Pro

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VERIFICATION SUMMARY

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